

#### **Society for Marketing Professional Services**

John F. Spencer, CEO

September 30, 2004



James E. McGreevey, Governor

#### **Building A Better**

New Jersey

Building Schools For the 21<sup>st</sup> Century Building Stronger Communities Building a Robust Economy



#### Intro: Program Background



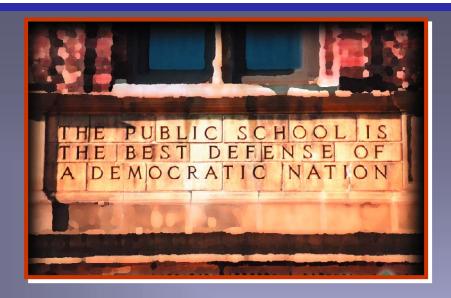
Educational Facilities Construction & Financing Act
Passed July 2000

\$8.6 Billion in School Construction throughout NJ

- •\$6 billion for 31 Abbott Districts
- •\$2.5 billion for Non-Abbott Districts
- \$100 Million for County Vocational Schools

Gov. McGreevey signs E.O. Creating SCC July 2002





# Part I The State of School Construction

#### Managed Activity - Building New Jersey's Economy

## **Actual and Projected Total Expenditures**

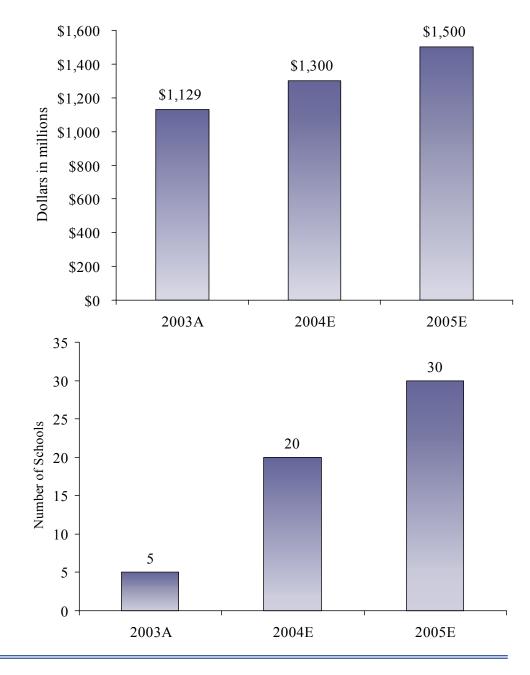


#### **Actual and Projected New School Openings**

2003: 5

2004: 20

2005: 30

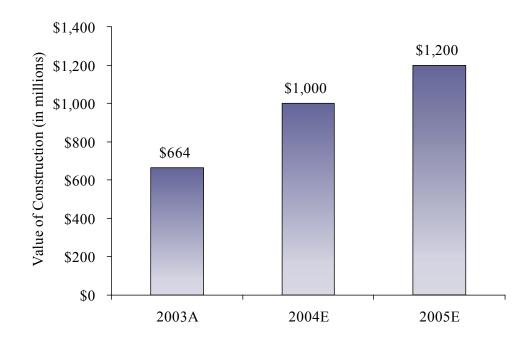




#### Managed Activity - Building New Jersey's Economy

#### Actual and Projected Construction Awards (in millions)

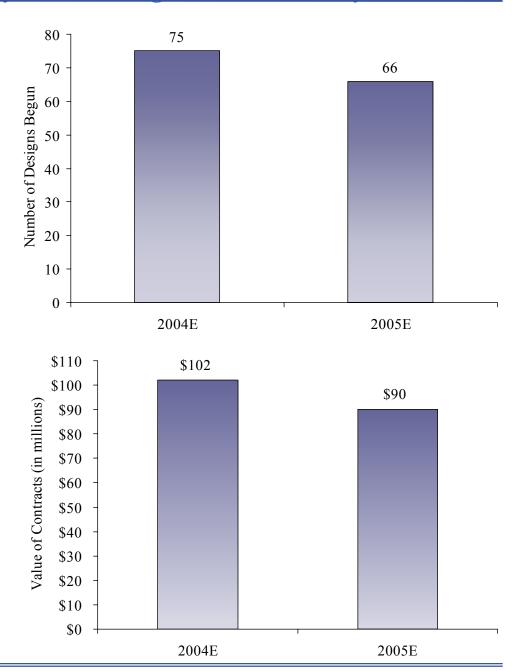




#### NJSCC Managed Consultant Activity – Building NJ's Economy

Actual and Projected New Consultant Contracts

Actual and Projected Consultant Awards (in millions)



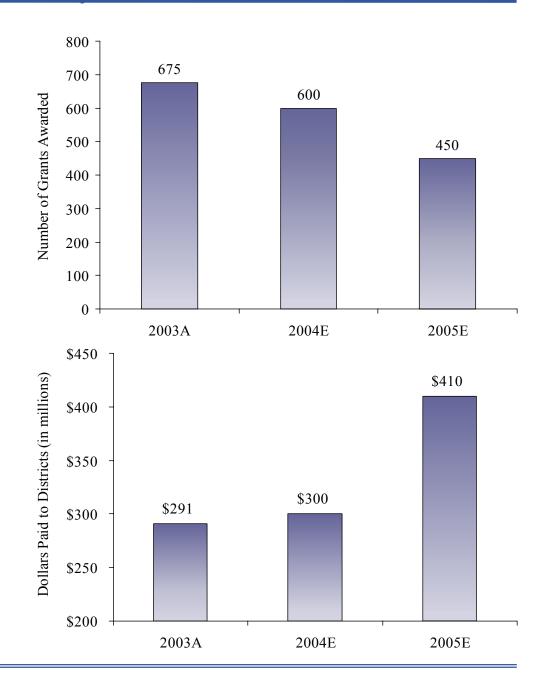


#### Non-Abbott and Vocational Grant Activity

### **Actual and Projected Grant Awards**

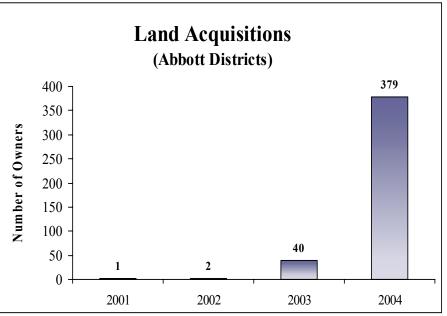


**Actual and Projected Grant Disbursements** 

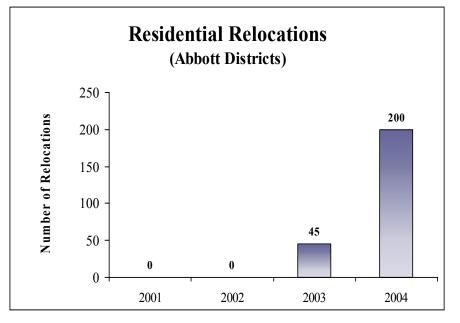


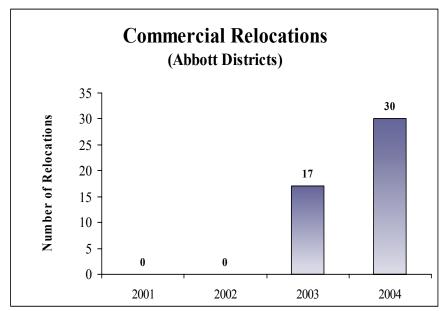
#### Land Acquisition and Relocations











#### Working with the NJSCC – Pre-Qualified Engineers

## **Total Number of Firms Pre-Qualified** in **Engineering Disciplines**

(Civil, Structural, MEP, Environmental, HVAC)

Limit - \$5 million or below

(in one or more disciplines)

Limit - Between \$5 million and \$25 million

(in one or more disciplines)

**Limit – Unlimited** 

(in one or more disciplines)

298

173

154

67



#### Working with the NJSCC – Pre-Qualified Architects

**Total Number of Pre-Qualified Architects** 

247

**Limit - \$5 million or below** 

66

Limit - Between \$5 million and \$25 million

92

**Limit - Unlimited** 

89



## **Diversity Programs**

- Bonding and Working Capital
- Contractor Development
- One-stop Form Filing
- Small Business Carve-outs
- Workforce Monitoring Program



## **Bonding and Working Capital Assistance Program**

Assists Small Business Enterprises (SBE's) in obtaining bonding or increase their bonding capacity to participate in SCC contracts

- 80 contractors enrolled to date
  - 31 minority owned, 18 women owned, 29 small businesses
- Confirmed bonding to 16 contractors to date (\$15.8 M)

Contact: Surety Bond Associates Ellen Neylan 215.763.5815



#### **Contractor Development Program**

Statewide Contractor Development Program utilizes business development consultants to provide hands on assistance to help SBE's upgrade business management practices:

- Regional Alliance for Small Contractors (Northern Region)
- Greater Newark Business Development Consortium (Essex Region)
- Qualified Women in Construction (Eastern and Southern Region)
- Construction Project Management Services (Western Region)
- Visionary Business Solutions (Hudson Region)



#### Small Business Carve-Out Program:

Under this program, portions of individual projects are carved out (set-aside) to be bid exclusively by SBE's

120 CONTRACTS
VALUED AT
\$241 MILLION IN FY 2004







#### SCC Completes Health & Safety Repairs Throughout the State

Impacts \$660 million for 344 Schools With No Delayed Openings



#### **Early Childhood Center**



#### Groundbreakings for Central H.S. and Science Park H.S.

#### Newark

#### Spring 2004







#### Paterson's P.A.N.T.H.E.R. Academy

## Planetarium Dome for New Aerospace Studies High School September 2004









#### Main Street K-8 School



Orange
September 2004



ORANGE MAIN STREET SCHOOL





YEZZI ARCHI



#### **Union City Middle School**



## Part II 21st Century Schools



#### Policy Implementation-Building 21st Century Schools



- •Established & Implemented LEED Standards to Ensure Energy Efficiency and Healthy School Environments
- MOA with NJIT to Establish the High Performance Schools Initiative
- 21st Century Schools Design Manual



Schools must incorporate maximum operating efficiencies and new technologies to advance energy efficiency of schools and their operating systems.

Educational Facilities
Construction and Financing Act
Legislative Findings

"WHEREAS, it is in the best interests of the people of New Jersey that school facilities developed under the Act shall be modern facilities of the 21st century, combining all of these features: the best possible learning environment, the most energy-efficient design, the most environmentally sustainable systems, and the highest community relevance..."

Governor James E. McGreevey New Jersey Executive Order #24



## Leadership in Energy & Environmental Design LEED

Sustainable Sites

Water Efficiency

**Energy & Atmosphere** 

**Materials & Resources** 

**Environmental Quality** 



#### NJIT School of Architecture High Performance Schools Information Center

- •Objective, research-based technical information
- Documentation of best practices
- •Guidelines for high performance school design and construction
- Resources and training



## **High Performance Schools Key Characteristics**

#### •Healthy and Productive:

Enables students and teachers to achieve maximum potential by providing healthy, safe, and comfortable environments.

#### •Cost Effective:

Provides facilities that save money over time by being efficient to build, maintain and operate.

#### •Educationally Effective:

Provides a superior teaching and learning environment that accommodates present and future needs.

#### •Sustainable:

Minimizes environmental impacts and maximizes the use of non-polluting, renewable resources.

#### •Community Centered:

Creates schools that are integral parts of their communities.



#### Key Characteristics and Design Criteria

#### • Healthy and Productive

- Acoustic comfort
- Natural daylight
- Superior indoor air quality
- Safe and secure
- Thermal and visual comfort

#### Cost Effective

- Commissioning
- Energy analysis tools
- Life-cycle cost approach

#### • Educationally Effective

- Accessible and inclusive
- Accommodates the learning needs of students both present and future
- Flexible/adaptable
- Integral part of the curriculum.

#### Sustainable

- Energy efficient building shell
- Environmentally preferable materials and products
- Environmentally responsive site planning
- Meets LEED Requirements
- High performance electric lighting
- High performance HVAC

#### Community Centered

- Catalyst for economic development
- Community involvement in development
- Community use



#### 21st Century Schools Design Manual

- Performance-based and flexible
- Focused on Performance Standards and Goals
  - How a Project Team is using the Design Criteria to achieve the Key Characteristics of a high performance school.
  - Design Performance Standards

#### • Deliverables

- Required deliverables at key project review phases
- Project Report Question/prompt-driven by PMF
- Organized to address each individual Design Criteria
- LEED Checklist

#### • Goals

- Help Project Teams achieve high performance goals
- Help NJSCC review Project Team progress in meeting goals and in overall performance evaluation



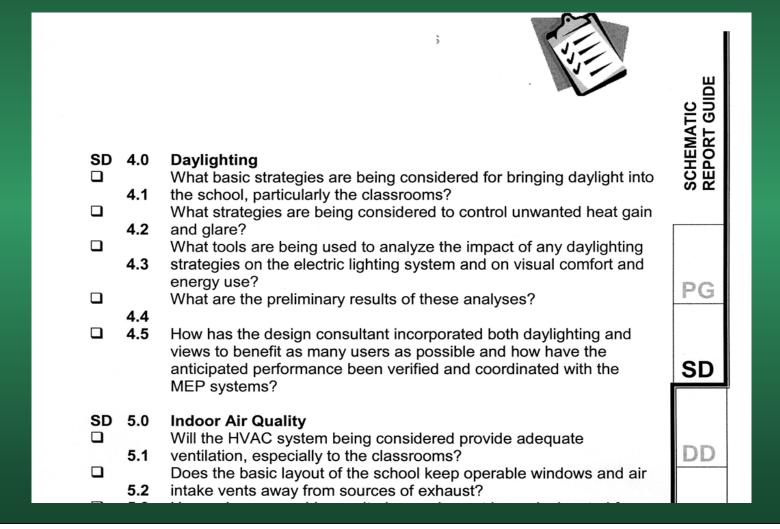
### Program Phase



PG 4.0 4.1 4.2	Has daylighting been established as a specific design goal for the school and, in particular, for the classrooms?  How will siting and site elements influence the building's access to	PROGRAM REPORT G
<b>4.3</b>	sunlight? Can the site accommodate one-story construction to allow skylights or roof monitors in the classrooms?	
<b>4.4</b>	Does the site allow the building to be oriented on an east-west axis to optimize southern exposure?	PG
PG 5.0 5.1 5.2 5.3	Indoor Air Quality Has superior indoor air quality been established as a design goal for the project? Is the site near any sources of outdoor pollution? How have the design consultants met the provisions of the ASHRAE 62.1 -2001 standard?	
PG 6.0 □ 6.1	Safe and Secure Environment Has security been established as a design goal for the project?	DD



#### Schematic Design Phase





O & A